

Material Safety Data Sheet (MSDS)

Sample Name: Rust remover

Sample ingredients/raw materials (provided by the customer): see Part III "Ingredient/Composition Information" in the body of the report

Editing Period: June 23, 2025 to June 25, 2025

Project: Prepare MSDS based on sample information provided by the customer.

Abstracts: According to the customer's request, the content and format of this Safety Technical Sheet are compiled in accordance with the European Commission Regulation "Globally Harmonized System of Classification and Labelling of Chemicals (GHS) 10th Edition (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 878/2020, and (EU) No 2015/830, as detailed in the body of the attached report.

Client Name: Jinhua Luchao Chemical Technology Co., Ltd

Client Address: No.1 West B138-1, Redwood Furniture Museum, Dongyang China Woodcarving City, Lantian Community, Baiyun Street, Dongyang City, Jinhua City, Zhejiang Province, China

Signed for and on Behalf of **SNTEK**

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SECTION 1: Identification of the substance/mixture and of the company/undertaking**1.1 Product Labeling**

Product Name: Rust remover

Model: general type

1.2 Recommended and Restricted Uses

Recommended use: Industrial use

Restricted use: No data available

1.3 Product Manufacturer or Supplier Information

Manufacturer: Jinhua Luchao Chemical Technology Co., Ltd

Address: No.1 West B138-1, Redwood Furniture Museum, Dongyang China Woodcarving City, Lantian
Community, Baiyun Street, Dongyang City, Jinhua City, Zhejiang Province, China

Telephone: +86-13691214494

E-mail: wobuxiang2025@163.com

1.4 Enterprise emergency telephone

Enterprise emergency telephone: +86-13161223694

SECTION 2: Hazards identification**Summary of emergency**

The product is a colorless transparent liquid with a slight odor. Under normal circumstances, there is no harm in the package. If skin contact causes discomfort: immediately remove or take off all contaminated clothing. Wash the skin with water or shower. In case of eye contact: rinse with plenty of water and remove any contact lenses. If ingested: drink water immediately (up to 2 cups). If you feel unwell, seek medical attention. In the event of a fire, it may produce harmful gases or vapors.

2.1 GHS Classification

Acute toxicity, Oral (Category 4), H302

Acute toxicity, Dermal (Category 4), H312

Serious eye damage/eye irritation (Category 1), H318

Short-term (acute) aquatic hazard (Category 3), H402

2.2 GHS Label elements, including precautionary statements

Pictogram



Signal Word

Danger

Hazard Statements

H302 + H312 Harmful if swallowed or in contact with skin.

H318 Causes serious eye damage.

H402 Harmful to aquatic life.

Precautionary Statements

Prevention

P264 Wash skin thoroughly after handling.

P270 Do not eat, drink or smoke when using this product.

P273 Avoid release to the environment.

P280 Wear protective gloves/ protective clothing/ eye protection/ face protection.

Response

P301 + P312 + P330 IF SWALLOWED: Call a POISON CENTER/ doctor if you feel unwell. Rinse mouth.

P302 + P352 + P312 IF ON SKIN: Wash with plenty of water. Call a POISON CENTER/ doctor if you feel unwell.

P305 + P351 + P338 + P310 IF IN EYES: Rinse cautiously with water for several minutes. Remove contact lenses, if present and easy to do. Continue rinsing. Immediately call a POISON CENTER/ doctor.

P362 + P364 Take off contaminated clothing and wash it before reuse.

Disposal

P501 Dispose of contents/ container to an approved waste disposal plant.

2.3 Physical and chemical hazards

Referring to current information, no physical or chemical hazard.

2.4 Health hazards

H302 Harmful if swallowed.

H312 Harmful in contact with skin.

H318 Causes serious eye damage.

2.5 Environmental hazards

H402 Harmful to aquatic life.

2.6 Other hazards

None

SECTION 3: Composition/information on ingredients

3.1 Chemical characteristics

Substance / mixture: mixture

3.2 Composition / component

Description: A mixture composed of the following components

Component	Appr. %	CAS
water	79.70%	7732-18-5
oxalic acid	10.00%	144-62-7
Butyl glycol ether	8.00%	111-76-2
citric acid	2.00%	77-92-9
carboxymethylcellulose sodium	0.30%	9004-32-4

Note: /

SECTION 4: First aid measures

4.1 Description of first-aid measures

If inhaled

After inhalation: fresh air.

In case of skin contact

In case of skin contact: Take off immediately all contaminated clothing. Rinse skin with water/ shower.

In case of eye contact

After eye contact: rinse out with plenty of water. Remove contact lenses.

If swallowed

After swallowing: caution if victim vomits. Risk of aspiration! Keep airways free. Pulmonary failure possible after aspiration of vomit. Call a physician immediately.

4.2 Most important symptoms and effects, both acute and delayed

The most important known symptoms and effects are described in the labelling (see section 2.2) and/or in section 11.

4.3 Indication of any immediate medical attention and special treatment needed

No data available

SECTION 5: Firefighting measures**5.1 Extinguishing media****Suitable extinguishing media**

Carbon dioxide (CO₂) Foam Dry powder

Unsuitable extinguishing media

For this substance/mixture no limitations of extinguishing agents are given.

5.2 Special hazards arising from the substance or mixture

Carbon oxides

Nature of decomposition products not known.

Non-flammable solid.

Development of hazardous combustion gases or vapours possible in the event of fire.

5.3 Advice for firefighters

In the event of fire, wear self-contained breathing apparatus.

Prevent fire extinguishing water from contaminating surface water or the ground water system.

SECTION 6: Accidental release measures

6.1 Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid inhalation of dusts. Avoid substance contact. Ensure adequate ventilation. Evacuate the danger area, observe emergency procedures, consult an expert.

For personal protection see section 8.

6.2 Environmental precautions

Do not let product enter drains.

6.3 Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up carefully. Dispose of properly. Clean up affected area. Avoid generation of dusts.

6.4 Reference to other sections

For disposal see section 13.

SECTION 7: Handling and storage

7.1 Precautions for safe handling

For precautions see section 2.2.

7.2 Conditions for safe storage, including any incompatibilities

Storage conditions

Tightly closed. Dry.

Recommended storage temperature see product label.

Storage class

Storage class (TRGS 510): 13: Non-flammable liquid

SECTION 8: Exposure controls/personal protection

8.1 Control parameters

Ingredients with workplace control parameters

Contains no substances with occupational exposure limit values.

8.2 Exposure controls

Appropriate engineering controls

Change contaminated clothing. Wash hands after working with substance.

Personal protective equipment

Eye/face protection

Use equipment for eye protection tested and approved under appropriate government standards such as NIOSH (US) or EN 166(EU). Safety glasses

Skin protection

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use. When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please contact the supplier of CE-approved gloves Full contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm

Break through time: 480 min

This recommendation applies only to the product stated in the safety data sheet, supplied by us and for the designated use.

When dissolving in or mixing with other substances and under conditions deviating from those stated in EN374 please

contact the supplier of CE-approved gloves Splash contact

Material: Nitrile rubber

Minimum layer thickness: 0.11 mm Break through time: 480 min

Respiratory protection

required when dusts are generated.

Control of environmental exposure

Do not let product enter drains.

SECTION 9: Physical and chemical properties**9.1 Information on basic physical and chemical properties**

- | | |
|--|--|
| a) Appearance | liquid |
| b) Color | Colorless and transparent |
| c) Odor | Slight odor |
| d) pH | No data available |
| e) Melting point/
freezing point | - 10°C |
| f) Initial boiling point
and boiling range | No data available |
| g) Flash point (open flash point) | Non-flammable |
| h) Evaporation rate | No data available |
| i) Flammability
(solid, gas) | No data available |
| j) Upper/lower Flamm-
ability or explosive limits | No data available |
| k) Vapor pressure | No data available |
| l) Vapor density | No data available |
| m) Relative density | 1.01g/cm ³ |
| n) Water solubility | soluble |
| o) Partition coefficient:
n-octanol/ water | No data available |
| p) Autoignition
temperature | No data available |
| q) Decomposition
temperature | No data available |
| r) Viscosity | Viscosity, kinematic: No data available
Viscosity, dynamic: No data available |
| s) No data available | No data available |
| t) Oxidizing properties | No data available |

9.2 Other safety information

No data available

SECTION 10: Stability and reactivity**10.1 Chemical stability**

The product is chemically stable under standard ambient conditions (room temperature) .

10.2 Possibility of hazardous reactions

Violent reactions possible with:

Strong oxidizing agents

10.3 Conditions to avoid

No data available

10.4 Incompatible materials

Strong oxidizing agents

10.5 Hazardous decomposition products

In the event of fire: see section 5

SECTION 11: Toxicological information**11.1 Information on toxicological effects****Acute toxicity**

Oral : No data available

Inhalation: No data available

Dermal: No data available

Skin corrosion/ irritation

No data available

Serious eye damage/ eye irritation

No data available

Respiratory or skin sensitization

No data available

Germ cell mutagenicity

No data available

Carcinogenicity

No data available

Reproductive toxicity

No data available

Specific target organ toxicity - single exposure

No data available

Specific target organ toxicity - repeated exposure

No data available

Aspiration hazard

No data available

11.2 Additional Information

To the best of our knowledge, the chemical, physical, and toxicological properties have not been thoroughly investigated.

However, when the product is handled appropriately, hazardous effects are unlikely to occur.

Handle in accordance with good industrial hygiene and safety practice.

SECTION 12: Ecological information**12.1 Toxicity**

No data available

12.2 Persistence and degradability

No data available

12.3 Bioaccumulative potential

No data available

12.4 Mobility in soil

No data available

12.5 Results of PBT and vPvB assessment

PBT/vPvB assessment not available as chemical safety assessment not required/not conducted

12.6 Endocrine disrupting properties

No data available

12.7 Other adverse effects

No data available

SECTION 13: Disposal considerations**13.1 Waste treatment methods****Product**

Offer surplus and non-recyclable solutions to a licensed disposal company.

SECTION 14: Transport information**14.1 UN number**

ADR/RID: -

IMDG: -

IATA-DGR: -

14.2 UN proper shipping name

ADR/RID: Not dangerous goods

IMDG: Not dangerous goods

IATA-DGR: Not dangerous goods

14.3 Transport hazard class(es)

ADR/RID: -

IMDG: -

IATA-DGR: -

14.4 Packaging group

ADR/RID: -

IMDG: -

IATA-DGR: -

14.5 Environmental hazards

ADR/RID: no

IMDG Marine pollutant: no

IATA-DGR: no

14.6 Special precautions for user

Avoid generating dust.

14.7 Incompatible materials

Strong oxidizer

Further information

During transportation, it should be protected from sunshine, rain and high temperature, and should be kept away from fire and heat source.

SECTION 15: Regulatory information**15.1 Safety, health and environmental regulations/legislation specific for the substance or mixture**

This material safety data sheet complies with the requirements of Regulation (EC) No. 1907/2006.

15.1 Chemical Safety Assessment

For this product a chemical safety assessment was not carried out

SECTION 16: Other information**16.1 References:**

[1] IPCS: International Chemical Safety Card (ICSC) Website:

<http://www.ilo.org/dyn/icsc/showcard.home>

[2] EU REACH Registered Substances Database

Website: <http://echa.europa.eu/web/guest/information-on-chemicals/registered-substances>

[3] OECD Global Chemical Information Platform (GCIP)

Website: http://www.echemportal.org/echemportal/index?pageID=0&request_locale=en

[4] US CAMEO Chemical Substance Database Website:

<http://cameochemicals.noaa.gov/search/simple>

[5] U.S. Library of Medicine: Chemical Labeling Database

URL: <http://chem.sis.nlm.nih.gov/chemidplus/chemidlite.jsp>

16.2 Shrinking:

PC-STEL Short Time Exposure Tolerance Concentration

PC-TWA Time-weighted average

IARC International Agency for Research on Cancer

IATA International Air Transport Association

ICAO International Civil Aviation Organization

UN United Nations

16.3 Disclaimer:

The format of this MSDS complies with the requirements of the 10th edition of the Globally Harmonized System of Classification and Labeling of Chemicals (GHS) (EC) No 1907/2006, (EC) No 1272/2008, (EC) No 878/2020, and (EU) No 2015/830, and the data are obtained from international authoritative databases and data submitted by the enterprises, and the other information is based on the current knowledge of the company. Other information is based on the company's current knowledge. We try our best to ensure the correctness of all the information in this document, but due to the diversity of information sources and the limitations of our knowledge, this document is only for users' reference. The user of the safety instructions should make a judgment on the reasonableness of the information according to the purpose of use. We shall not be liable for any damages arising from the operation, storage, use or disposal of this product.

16.4 Revision Information

Date of MSDS preparation: Wednesday, June 25, 2025

MSDS Version: 1.0